

24

Date: Wednesday, 5/16/2007 8:01:17 AM
 User: Kim Johnston

Process Sheet

Customer : CU-DAR001 Dart Helicopters Services Drawing Name : FLOAT SKID LH 206L1,L3,L4&407
 Job Number : 32359
 Estimate Number : 10307
 P.O. Number : N/A Part Number : D206642511
 This Issue : 5/16/2007 S.O. No. : N/A Drawing Number : D206-642 PG22-23
 Prsht Rev. : NC Project Number : N/A
 First Issue : N/A Type : LANDING GEAR Drawing Revision : K
 Previous Run : 32358 Material : N/A
 Due Date : 6/10/2007 Qty: 1 Um: Each
 Written By :
 Checked & Approved By :
 Comment : Est Rev:B 05-09-23 Revised per D206-642 Rev. J KJ/JLM
 Est Rev:C 07-02-23 As per IIN D206-642 Rev K JLM

Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 DC DOCUMENT CONTROL



①

Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels per PPP D206-642-511CHG003

KS 07-05-30

2.0 32359A FLOAT SKIDTUBE ASSEMBLY



Comment: Sub-Component FLOAT SKIDTUBE ASSEMBLY

D206-642-541 B 32359A

3.0 PACKAGING 1 PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Pick Packaging Kit

Pick K642511

Batch: 33484

4.0 D206648013 GHW Kit



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D206-648-013 GHW Kit

1 D206-642-541(REF)

6/7/02

5.0 D2652 Bushing



Comment: Qty.: 16.0000 Each(s)/Unit Total: 16.0000 Each(s)

Pick:

Qty Part Number Description Batch

16 D2652

Bushing

Ins Pkct w/o lot Per comp/ET/enters

6/7/02

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:01:17 AM
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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKID LH 206L1,L3,L4&407

Job Number: 32359

Part Number: D206642511

Job Number:



Seq. #:	Machine Or Operation:	Description :
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6.0	D2712	Set Screw
-----	-------	-----------



Comment: Qty.: 10.0000 Each(s)/Unit Total : 10.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
10	D2712	Set Screw	

7.0	D29321	206 Saddle Left side
-----	--------	----------------------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
1	D2932-1	Saddle	

8.0	D29331	206 Saddle Left
-----	--------	-----------------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
1	D2933-1	Saddle	

9.0	D2934	Saddle Spacer
-----	-------	---------------



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
2	D2934	Saddle Spacer	

10.0	D2935	Saddle Spacer
------	-------	---------------



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
2	D2935	Saddle Spacer	

11.0	D29381	206 Saddle Left side
------	--------	----------------------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
1	D2938-1	Saddle	

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Drawing Name: FLOAT SKID LH 206L1,L3,L4&407

Job Number: 32359

Part Number: D206642511

Job Number:



Seq. #:

Machine Or Operation:

Description :

12.0

D29391

206 Saddle Left side



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D2939-1

Saddle

13.0

D33963

Inventory



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

2 D3396-3

Spacer

14.0

D3407043

Tow Ring



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D3407-043

Tow Ring

15.0

D34561

washer



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D3456-1

Washer

16.0

D34571

Inventory



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

2 D3457-1

Washer

17.0

AN3C35A



Comment: Qty.: 3.0000 Each(s)/Unit Total : 3.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

3 AN3C35A

Bolt

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Job Number: 32359

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Job Number:



Seq. #:

Machine Or Operation:

Description :

18.0

AN3C36A



Comment: Qty.: 9.0000 Each(s)/Unit Total : 9.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

9 AN3C36A

Bolt

19.0

AN3C41A



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

8 AN3C41A

Bolt

20.0

AN4C6A



Bolt



Comment: Qty.: 12.0000 Each(s)/Unit Total : 12.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

12 AN4C6A

Bolt

21.0

AN5C11A



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

8 AN5C11A

Bolt

22.0

AN5C12A



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

4 AN5C12A

Bolt

23.0

AN5C13A



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

4 AN5C13A

Bolt

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Part Number: D206642511

Job Number:



Seq. #:

Machine Or Operation:

Description :

24.0

AN5C15A

Bolt



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 AN5C15A

Bolt

25.0

AN5C32A



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

2 AN5C32A

Bolt

26.0

AN5C34A



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

2 AN5C34A

Bolt

27.0

AN5C35A



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 AN5C35A

Bolt

28.0

AN960C10L

washer



Comment: Qty.: 24.0000 Each(s)/Unit Total : 24.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

24 AN960C10L

Washer

29.0

AN960C416L

WASHER



Comment: Qty.: 24.0000 Each(s)/Unit Total : 24.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

24 AN960C416L

Washer

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Job Number: 32359

Part Number: D206642511

Job Number:



Seq. #:

Machine Or Operation:

Description :

30.0

AN960C516L

WASHER



Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
8	AN960C516L	Washer	

31.0

MS210433

Nut



Comment: Qty.: 20.0000 Each(s)/Unit Total : 20.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
20	MS21043-3	Nut	

32.0

MS210434

Nut



Comment: Qty.: 13.0000 Each(s)/Unit Total : 13.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
13	MS21043-4	Nut	

33.0

MS210435

Nut



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
4	MS21043-5Nut		

34.0

NAS1515H3L

WASHER



Comment: Qty.: 24.0000 Each(s)/Unit Total : 24.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
24	NAS1515H3L	Washer	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Date: Wednesday, 5/16/2007 8:01:18 AM
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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKID LH 206L1,L3,L4&407

Job Number: 32359

Part Number: D206642511

Job Number:



Seq. #:	Machine Or Operation:	Description :
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35.0	NAS1515H4L	Inventory
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Comment: Qty.: 24.0000 Each(s)/Unit Total : 24.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
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24	NAS1515H4L	Washer	
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36.0	NAS1515H5	Washer
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Comment: Qty.: 16.0000 Each(s)/Unit Total : 16.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
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16	NAS1515H5	Washer	
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37.0	NAS1515H5L	WASHER
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Comment: Qty.: 8.0000 Each(s)/Unit Total : 8.0000 Each(s)

Pick:

Qty	Part Number	Description	Batch
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8	NAS1515H5L	Washer	
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38.0	QC4	INSPECT 100% KITS FOR COMPLETENESS
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Comment: INSPECT 100% KITS FOR COMPLETENESS

39.0	PACKAGING 1	PACKAGING RESOURCE #1
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Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D206-642-511

Location: *REV: C*

40.0	QC21	FINAL INSPECTION/W/O RELEASE
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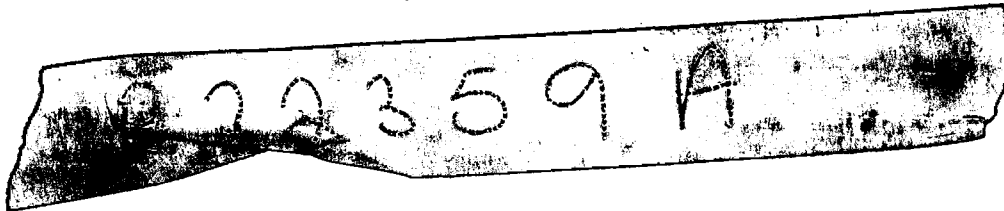


Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Jim 07-08-02



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

4.5 206L/L-1/L-3/L-4/407 High Gear Float Skidtubes (TRI-BAG COMPATIBLE)

Item	Qty -511	Qty -512	Qty -541	Qty -547	Qty -013	Part Number	Description
	X					D206-642-511	SKIDTUBE INSTALLATION, LH
		X				D206-642-512	SKIDTUBE INSTALLATION, RH
	1	1	X			D206-642-541	SKIDTUBE
				X		D206-642-547	WEARSHOE KIT (REPLACES -543 KIT)
	1	1			X	D206-648-013	GROUND HANDLING KIT
1			1			D3274-041	SKIDTUBE ASSEMBLY
3			1			D2646	* AFT CAP ⁽¹⁾
4			2			AN3C4A	* BOLT ⁽¹⁾
5A			2			AN960C10L	* WASHER ⁽¹⁾
5B			2			NAS1515H3L	* WASHER ⁽¹⁾
6	1					D2932-1	SADDLE, FWD OUT, LH
6		1				D2932-2	SADDLE, FWD OUT, RH
7	1					D2933-1	SADDLE, FWD IN, LH
7		1				D2933-2	SADDLE, FWD IN, RH
8	1					D2938-1	SADDLE, AFT OUT, LH
8		1				D2938-2	SADDLE, AFT OUT, RH
9	1					D2939-1	SADDLE, AFT IN, LH
9		1				D2939-2	SADDLE, AFT IN, RH
10	8	8				AN3C41A	BOLT
11	16	16				D2652	BUSHING
12A	8	8				MS21043-3	NUT
12B	16	16				NAS1515H5	WASHER
13	4	4				AN5C11A (or AN5C12A)	* BOLT ⁽²⁾
14	4	4				AN5C11A (or AN5C13A)	* BOLT ⁽²⁾
15A	8	8				AN960C516L	WASHER
15B	8	8				NAS1515H5L	WASHER
16	12	12				AN4C6A	BOLT
17A	24	24				NAS1515H4L	WASHER
17B	24	24				AN960C416L	WASHER
18	12	12				MS21043-4	NUT
20A			9	9		D3537-1	* WEARPAD ⁽¹⁾ (REPLACES D2648-3)
21A			1	1		D3537-3	* WEARPAD ⁽¹⁾ (REPLACES D3429-1)
22A			1	1		D3535-15	* WEARSHOE ⁽¹⁾ (REPLACES D2656-15)
22B			1	1		D3536-15	* GASKET ⁽¹⁾
23A			1	1		D3535-23	* WEARSHOE ⁽¹⁾ (REPLACES D2656-23)
23B			1	1		D3536-23	* GASKET ⁽¹⁾
24A			1	1		D3535-39	* WEARSHOE ⁽¹⁾ (REPLACES D3287-1)
24B			1	1		D3536-39	* GASKET ⁽¹⁾
25A			1	1		D3535-35	* WEARSHOE ⁽¹⁾ (REPLACES D2656-35)
25B			1	1		D3536-35	* GASKET ⁽¹⁾
26A			78	78		AN3C4A	* BOLT ⁽¹⁾
26B			78	78		AN960C10L	* WASHER ⁽¹⁾
26C			78			ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1				D3407-043	TOW RING
32A	1	1				D3456-1	WASHER
32B	2	2				D3457-1	WASHER
33	1	1				MS21043-4	NUT
34			1			AN4C5A	BOLT
35			1			AN960C416	WASHER
36			1			D3413-1	RING
37	10	10				D2712	SET SCREW
38	2	2				D2934	SADDLE SPACER
39	2	2				D2935	SADDLE SPACER

continued on next page...

SHOP COPY
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WORK ORDER
NO. 32359

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Revision: K
Date: 06.09.25

continued from previous page...

ITEM	QTY -511	QTY -512	QTY -541	QTY -547	QTY -013	PART NUMBER	DESCRIPTION
40					2	D3414-041	LUG ASSEMBLY (GHW)
41					4	AN3C37A	BOLT
42					8	D2652	BUSHING
43					4	MS21043-3	NUT
44					4	AN960C10	WASHER
50	9	9				AN3C36A	BOLT
51	3	3				AN3C35A	BOLT
52	24	24				AN960C10L	WASHER
53	24	24				NAS1515H3L	WASHER
54	12	12				MS21043-3	NUT
55	2	2				D3396-3	SPACER
56A	1	1				AN5C35A	BOLT
56B	1	1				AN5C15A	BOLT
60	2	2				AN5C32A	BOLT
61	2	2				AN5C34A	BOLT
62	4	4				MS21043-5	NUT

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3274-041 ASSEMBLY ABOVE
(2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

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Revision: **K**
Date: 06.09.25

Process Sheet

Part Number : D206642541
Drawing Number : D3274 REV D
Project Number : N/A
Drawing Revision : D
Material : *N/A*
Due Date : 6/10/2007

Qty: 1 Um: Each

Job Number:



1.0 DC DOCUMENT CONTROL



Photocopy bluefile & type labels per PPP D206-642-541 CHG003

2.0 D26001190 Extrusion Round 3" 206



Qty	Part Number	Description	Batch
-----	-------------	-------------	-------

1 D2600-1-190 3" OD Tube

3.0 LANDING GEAR 1 LANDING GEAR RESOURCE 1



5-Open aft end cap holes to Ø0.208" as per Dwg D3274. Deburr aft end.

Form: mprocess

W/O:		WORK ORDER CHANGES					
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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description :

4.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Acid Etch and Alodine tube as per QSI 005 4.1

JO 7-5-18

5.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

Am 07-06-07

6.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

BE / Am 07-06-07

7.0

D3282041

I-Beam



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D3282-041 Float Web

1331930

R 7-7-3

8.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Open Ø0.313" crossbolt spacer holes using DT8743 as per Dwg D3274

2-Open Ø0.375" crossbolt spacer holes using DT8744 as per Dwg D3274

3-Deburr crossbolt spacer holes as per Dwg D3274 and blow out chips from inside the tube

4-Bond web in place as per Dwg D3274 & QSI 015.

A/R Sikaflex-291

Sikaflex expire date:

Start: 7-7-38

Finish: 7-7-4

(Adhere for 12 hours)

8-1-1 M104732

Time: 7:35

Time: 10:00

R 7-7-3

DP 7-6-7

9.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

BE 07-07-04

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description :

10.0

LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Bend tube using program D3274 as per Dwg D3274. Install drop pins in cross bolt spacer holes to maintain web position.

2-Cut Fwd end of tube to length as per Dwg D3274

3-Remove inner indexing ridge on Fwd end of skidtube as per Dwg D3274

4- DRILL PILOT HOLES FOR WEARPLATES USING D3274-1T2
OPEN HOLES TO .297"

5-DRILL TOE PIN HOLE .640" DIA AS PER DWG USING DT8935 FWD END OF TUBE
DEBURR INSIDE OF HOLE AS NECESSARY (DO NOT ENLARGE HOLES)
REMOVE ANY FOREIGN OBJECTS INSIDE OF TUBES

6- Countersink crossbolt spacer holes as per Dwg D3274

11.0

D32851

Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number Description Batch

1 D3285-1 Fwd Cap

30293

07-07-10

12.0

D2649

Crossbolt Spacer



Comment: Qty.: 12.0000 Each(s)/Unit Total: 12.0000 Each(s)

Pick:

Qty Part Number Description Batch

12 D2649 Crossbolt spacer

331926

07-07-10

13.0

D32751

Crossbolt Spacer



Comment: Qty.: 12.0000 Each(s)/Unit Total: 12.0000 Each(s)

Pick:

Qty Part Number Description Batch

12 D3275-1 Crossbolt spacer

331672

07-07-10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #: Machine Or Operation:

Description:

14.0 LANDING GEAR 1

LANDING GEAR RESOURCE 1



Comment: LANDING GEAR RESOURCE 1

1-Weld Fwd Cap as per Dwg D3274 and QSI 004. Use aluminum rod.

A/R Aluminum Rod

m/04305/m 104221

BE 07-07-10

2-Insert D2649 & D3275-1 crossbolt spacers. Weld as per QSI 004 and Dwg D3274. Remember to back drill each hole before welding the other side. Use aluminum rod.

A/R Aluminum Rod

m/104221

BE 07-07-10

3-Grind welds flush to Fwd cap on top surface only.

BE 07-07-10

4-Grind cross bolt welds flush as per Dwg D3274. Masking Tape access to inside of the skidtube.

BE 07-07-10

5-Counterbore 5/16" x 0.750" deep as per Dwg D3274. Use DT8743 visual aid Jig and deburr.

BE 07-07-10

15.0

QC5/9

WELD INSPECTION



QC5/9 07-07-12



QC9 07-07-12

Comment: Inspect weld and Counterbore. Inspect for foreign objects as per QSI 024

16.0

POWDER COATING

POWDER COATING



m/101575



0

Comment: POWDER COATING

Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3

BR/m/ 07-07-17

17.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

FL 07/07/17

18.0

D3415041

Nut Plate



Comment: Qty: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

1 D3415-041

Nut Plate

B24251

19.0

CCR264SS33

Cherry Rivet



0

Comment: Qty: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number

Description

Batch

m/ 07/07/18

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description:

2 CCR264SS3-3 Rivet

M14651

20.0

CR3212403

Cherry Rivet



Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s)

Pick:

Qty Part Number Description Batch

2 CR3212-4-03 Rivet

M15918

21.0

ALS71032130

Insert



Comment: Qty.: 78.0000 Each(s)/Unit Total: 78.0000 Each(s)

Insert

Batch:

M103495

22.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

1-Install Nut Plate as per Dwg D3274. Apply LPS-3 to Nut Plate and rivets.

A/RN/ALPS-3

M104161

2-Install inserts as per Dwg D3274. Use a drop of Sikaflex inside insert holes a

A/R Sikaflex-291

Sikaflex expire date:

M104732
07-10

23.0

QC5

INSPECT WORK TO CURRENT STEP ,



Comment: INSPECT WORK TO CURRENT STEP

Inspect Nut Plate & Inserts

En 07/07/18 (41)
①

24.0

AN3C4A

BOLT



Comment: Qty.: 80.0000 Each(s)/Unit Total: 80.0000 Each(s)

BOLT

Batch:

M104537

m-f 07/07/18

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description :

25.0

D353515

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

WEARSHOE

Batch:

B 31990

26.0

D353523

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

WEARSHOE

Batch:

~~B 30944~~ B 32411

27.0

D353535

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

WEARSHOE

Batch:

B 31992

28.0

D353539

WEARSHOE



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

WEARSHOE

Batch:

B 32412

29.0

D353615

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

GASKET

Batch:

B 32746

30.0

D353623

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

GASKET

Batch:

B 32413

31.0

D353635

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

GASKET

Batch:

B 32788

M. H.

07/07/18

①

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description :

32.0

D353639

GASKET



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

GASKET

Batch: B 32414

33.0

D35371

WEARPAD



Comment: Qty.: 9.0000 Each(s)/Unit Total : 9.0000 Each(s)

WEARPAD

Batch: B 33284

34.0

D35373

WEARPAD



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

WEARPAD

B 32789

35.0

AN960C10L

washer



Comment: Qty.: 80.0000 Each(s)/Unit Total : 80.0000 Each(s)

Pick:

Qty Part Number

Description Batch

80 AN960C10L

Washer

M 101064

*

36.0

NAS1515H3L

WASHER



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part Number

Description Batch

2 NAS1515H3L

Washer

M 104603

37.0

D34131

Ring



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D3413-1

Ring

B 32408

38.0

AN4C5A

BOLT



Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

m.l 07/07/18

①

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description:

1 AN4C5A

Bolt

M18918

39.0

AN960C416L

WASHER



X

Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 AN960C416L

Washer

M100993

40.0

D2646

Aft Cap



Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s)

Pick:

Qty Part Number

Description Batch

1 D2646

Aft Cap

B30119

41.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



①

Comment: HAND FINISHING RESOURCE #1

2-Install wearpads & gaskets as per Dwg D3274.

3-Install ring as per Dwg D3274

A/R Sikaflex-291

Sikaflex expire date:

M104732
07-10

4-Inspect for foreign objects as per QSI 024

5-Spray inside of tube on both sides of web with LPS-3

A/R LPS-3

Batch:

M104161

6-Install Aft Cap and seal with Sikaflex. Clean excess adhesive.

A/R Sikaflex-291

Sikaflex expire date:

M104732
07-10

m.l 07/07/18

42.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

En 07/07/18 (X)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☒ No ☐ DQA: ☒ Date: 07/02/09
 QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Wednesday, 5/16/2007 8:02:13 AM
User: Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: FLOAT SKIDTUBE ASSEMBLY

Job Number: 32359A

Part Number: D206642541

Job Number:



Seq. #:

Machine Or Operation:

Description :

43.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and stock

Location: _____

APP 32359 E/S 7/08/02 ©

44.0

QC21

FINAL INSPECTION/W/O RELEASE



①

Comment: FINAL INSPECTION/W/O RELEASE

D 07/08/09

Job Completion



U 07.08.15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

DESIGN CP	DRAWN BY PH	DART AEROSPACE USA, INC. PORT HADLOCK, WA	
CHECKED [Signature]	APPROVED [Signature]	DRAWING NO. D3274	REV. D SHEET 1 OF 4
DATE 06.12.19		TITLE SKIDTUBE ASSEMBLY	SCALE NTS
A	04.03.15	NEW ISSUE	
B	04.08.09	MOVE SADDLE HOLE: 42.14 WAS 42.76	
C	05.03.16	ADD -043; NEW INSERTS	
D	06.12.19	NEW INSERTS, SS WEARSHOE + GASKET	

RELEASED07.02.12 **[Signature]**

Qty -041	Qty -043	Part Number	Description
X		D3274-041	SKIDTUBE ASSEMBLY
	X	D3274-043	SKIDTUBE ASSEMBLY
1	1	D2600-1-240	EXTRUSION
1	1	D2646	AFT CAP
12	12	D2649	CROSS BOLT SPACER
12	37	D3275-1	CROSS BOLT SPACER
1	1	D3282-041	FLOAT WEB
1	1	D3285-1	CAP
1	1	D3413-1	RING
1	1	D3415-041	NUT PLATE
1	1	D3535-15	WEARSHOE
1	1	D3535-23	WEARSHOE
1	1	D3535-35	WEARSHOE
1	1	D3535-39	WEARSHOE
1	1	D3536-15	GASKET
1	1	D3536-23	GASKET
1	1	D3536-35	GASKET
1	1	D3536-39	GASKET
9	9	D3537-1	WEARPAD
1	1	D3537-3	WEARPAD
78	78	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
80	80	AN3C4A	BOLT
1	1	AN4C5A	BOLT
1	1	AN960C416	WASHER
80	80	AN960C10L	WASHER
2	2	CCR264SS3-3	RIVET
2	2	CR3212-4-03	RIVET
2	2	NAS1515H3L	WASHER

GENERAL NOTES:

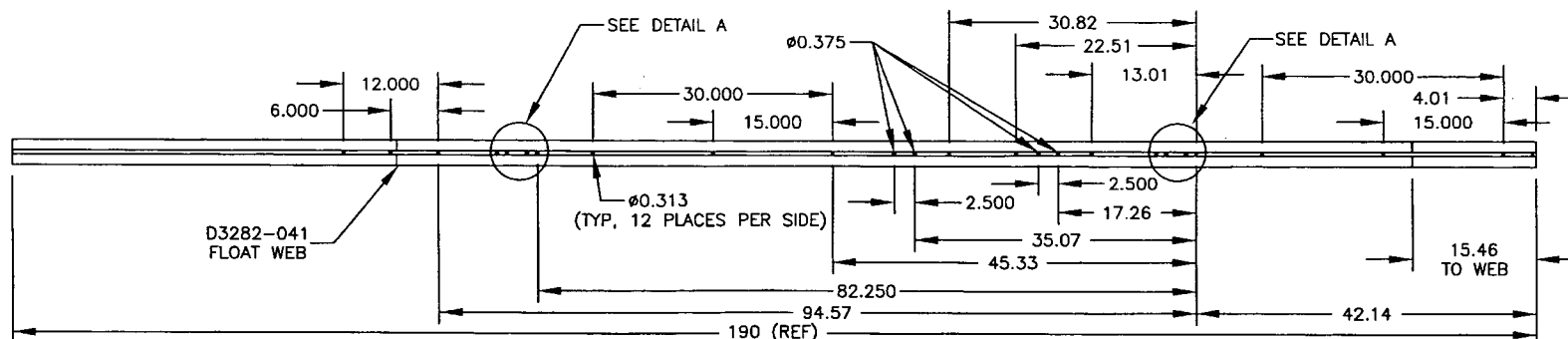
1. TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
2. DAMAGE TOLERANCE ON FWD BEND:
THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 7 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0.020 DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.
3. ALL HOLES DRILLED ON CENTERLINES.
4. BOND D3282-041 FLOAT WEB INTO D3274-1/-3 OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/291 ADHESIVE PER DART QSI 015. ENSURE HOLES LINE-UP.
5. WELDING TO BE DONE PER DART QSI 004.
6. FINISH: - ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1
- POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
7. DRILL Ø0.297 HOLES FOR ALS7-1032-130 INSERTS USING DT3274-1T2 BEFORE FINISH. INSTALL ALS7-1032-130 INSERTS AFTER FINISH. SEAL WEARSHOE BOLTS WITH SIKAFLEX -241/-291.
8. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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RETURN TO
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SUBJECT TO AMENDMENT
WITHOUT NOTICE

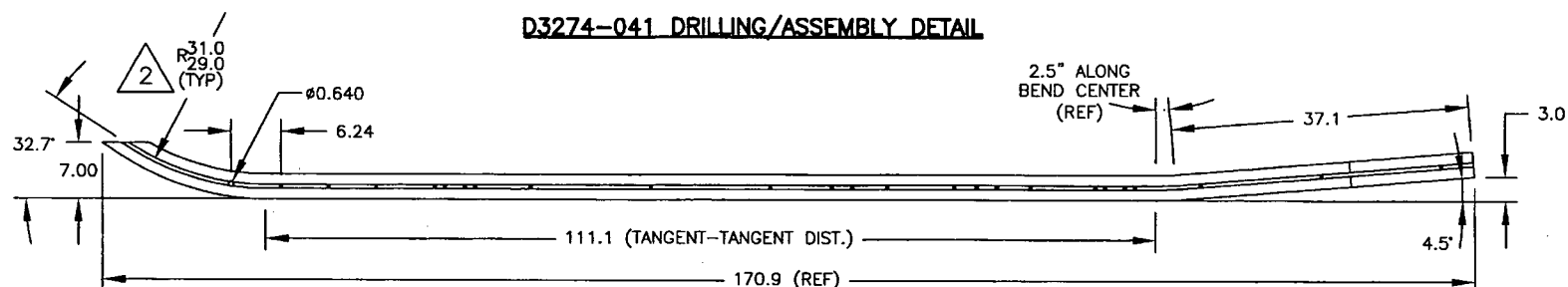
WORK ORDER
NO. **32359A**

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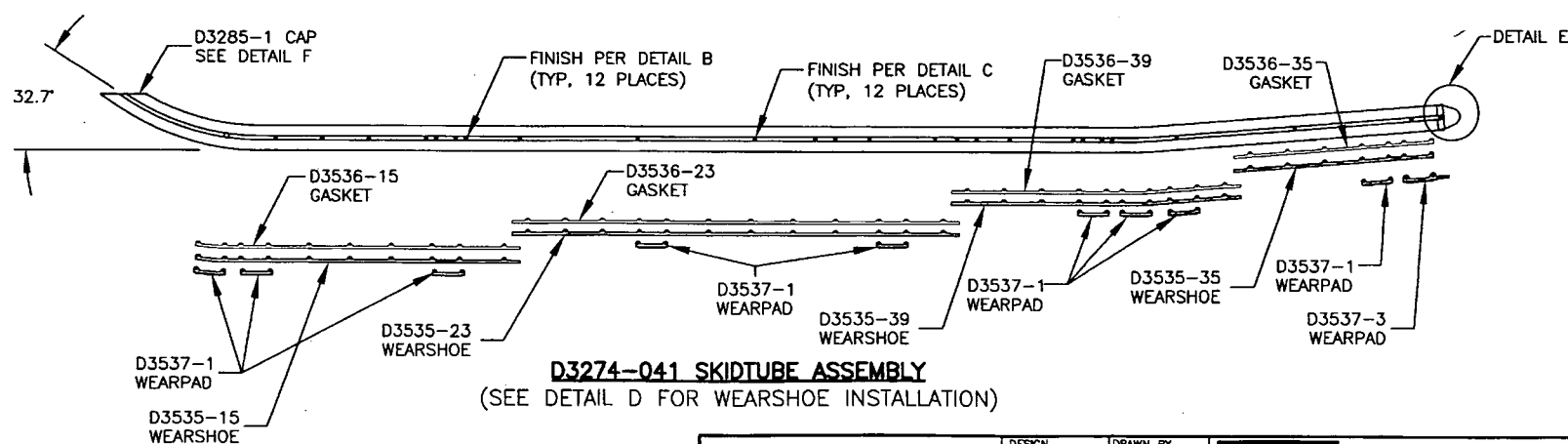
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D3274-041 DRILLING/ASSEMBLY DETAIL



D3274-041 BEND/DRILLING DETAIL



D3274-041 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)

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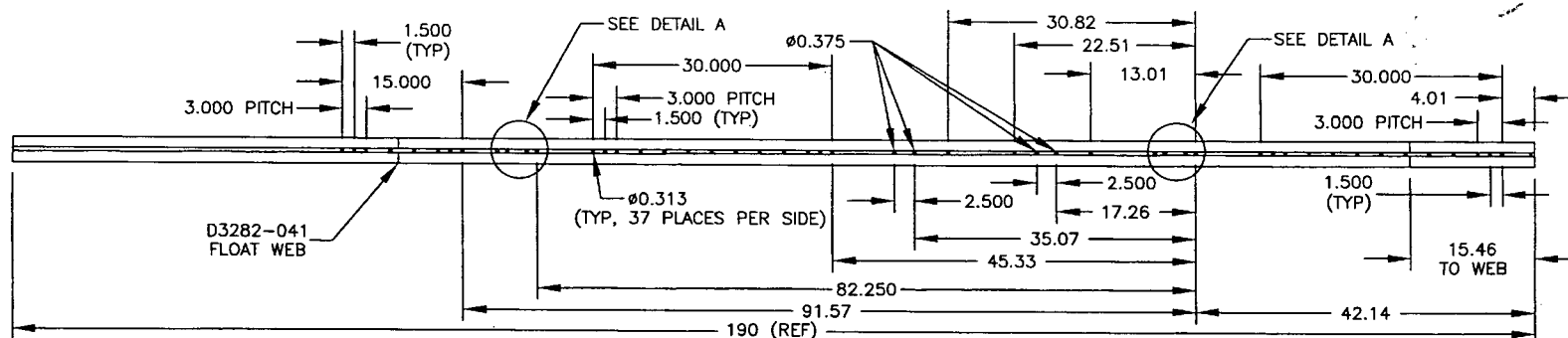
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07.02.12

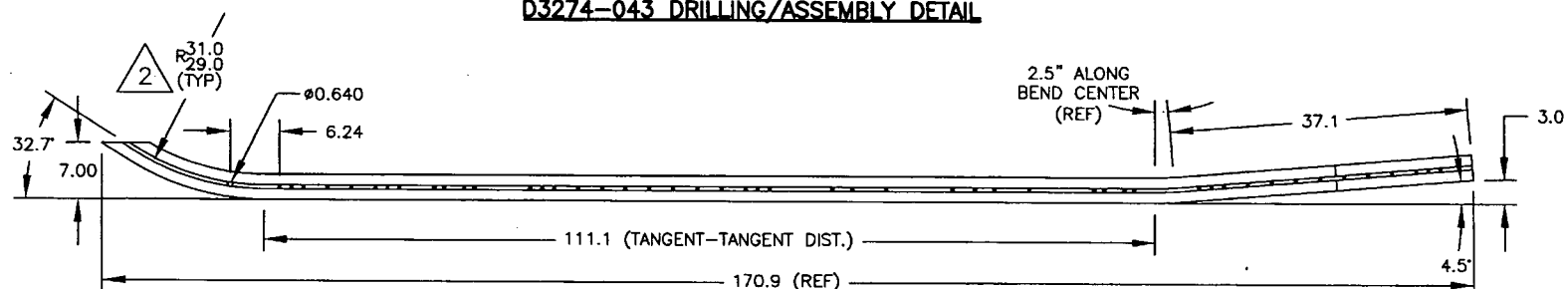
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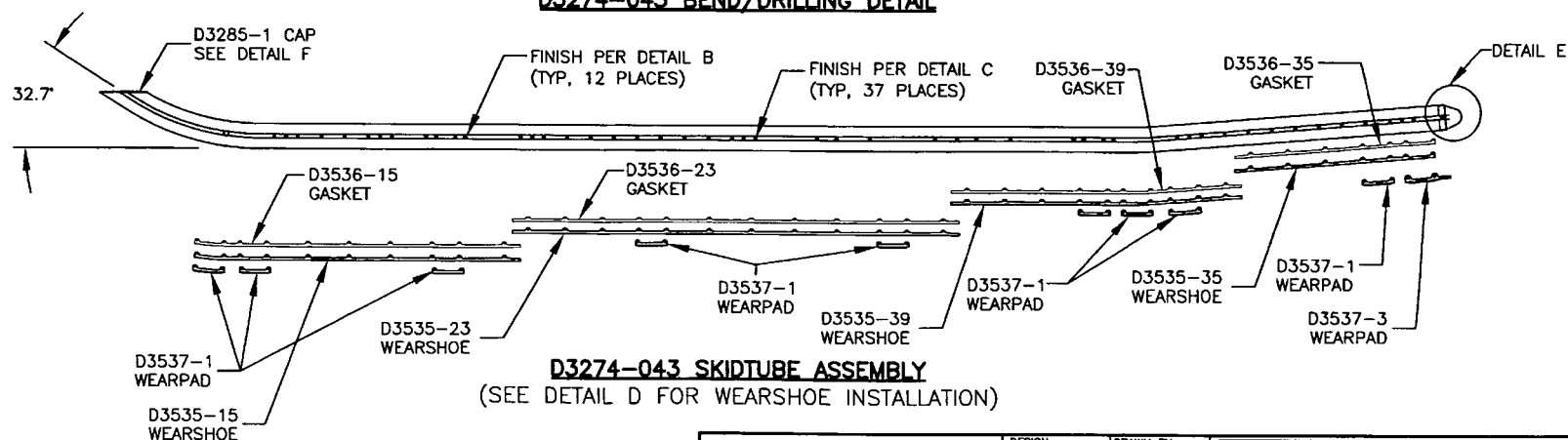
DESIGN CP	DRAWN BY PH	DART DART AEROSPACE USA, INC. PORT HADLOCK, MA
CHECKED H	APPROVED H	DRAWING NO. D3274
DATE 06.12.19	TITLE SKIDTUBE ASSEMBLY	REV. 0 SHEET 2 OF 4 SCALE 1:15



D3274-043 DRILLING/ASSEMBLY DETAIL



D3274-043 BEND/DRILLING DETAIL



D3274-043 SKIDTUBE ASSEMBLY
(SEE DETAIL D FOR WEARSHOE INSTALLATION)

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WORK ORDER
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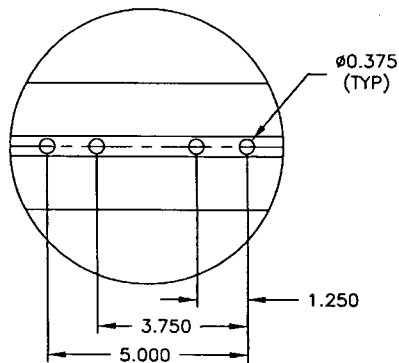
07.02.12

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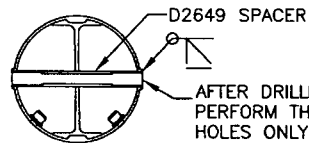
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DESIGN CP	DRAWN BY PH	DART DART AEROSPACE USA, INC. PORT HADLOCK, MA	REV. D
CHECKED H	APPROVED H	DRAWING NO. D3274	SHEET 3 OF 4
DATE 06.12.19	TITLE SKIDTUBE ASSEMBLY	SCALE 1:15	

DETAIL A: DRILL DETAIL

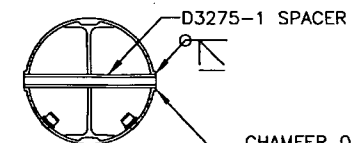


DETAIL B FOR 0.375 HOLES ONLY



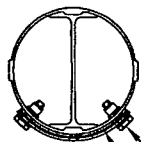
- AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR 0.375
HOLES ONLY:
1. CHAMFER HOLE 0.030x45°
 2. INSERT D2649 SPACER
 3. WELD INTO PLACE AND GRIND FLUSH
 4. C'BORE TO 0.313x0.75 DEEP

DETAIL C FOR 0.313 HOLES ONLY



CHAMFER 0.030x45°
(TYP)

DETAIL D

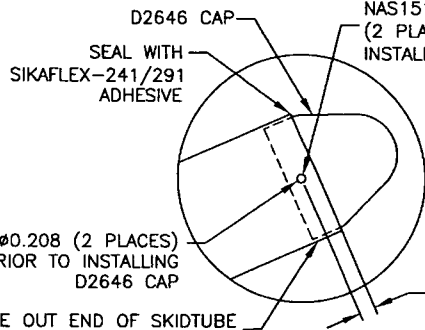


- ALS7-1032-130 INSERT (1)
AN3C4A BOLT (1)
AN960C10L WASHER (1)
(78 PLACES)

GASKET/WEARSHOE/WEARPAD (REF)

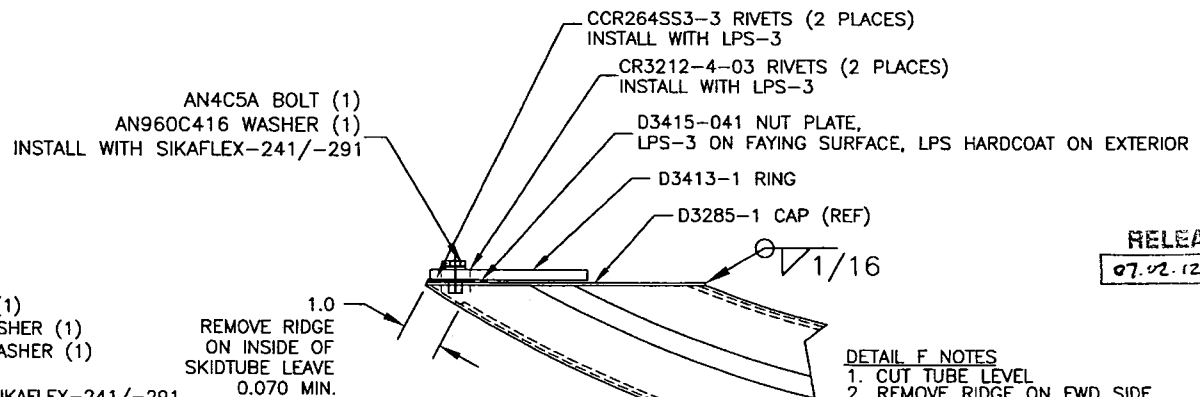
DETAIL E

- AN3C4A BOLT (1)
AN960C10L WASHER (1)
NAS1515H3L WASHER (1)
(2 PLACES)
INSTALL WITH SIKAFLEX-241/-291



0.400

DETAIL F: END FINISHING DETAIL



RELEASED
07.02.12

DETAIL F NOTES

1. CUT TUBE LEVEL
2. REMOVE RIDGE ON FWD SIDE
3. LOCATE D3285-1 (TRIM AS NECESSARY)
4. WELD D3285-1 IN PLACE PER DART QSI 004
5. GRIND FLUSH
6. RIVET D3415-041 NUT PLATE IN PLACE

NOTE: MASK THREADS IN D3415-041
PRIOR TO FINISH

NO. 32359A
WORK ORDER
SUBJECT TO AMENDMENT
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CHECKED	APPROVED	CP	PH	DRAWING NO.	REV. D
				D3274	SHEET 4 OF 4
DATE	TITLE			SCALE	
06.12.19	SKIDTUBE ASSEMBLY			1:3	

NO. 114

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name Barclay Elliot
Joint Welding Procedure Tig
Part number and Job number BAC6642541/B3297

TEST WELDS REQUIRED

BASE METAL Alum WELDING PROCESS Tig
Penetration Complete ☐ Partial ☒ Single Weld ☒ Double Weld ☐
Current AC ☒ DC ☐ Backing YES ☐ NO ☒

	Position	Vertical	Down <input type="checkbox"/>	Up <input type="checkbox"/>
Sheet Groove	1G <input type="checkbox"/>	2G <input type="checkbox"/>	3G <input type="checkbox"/>	4G <input type="checkbox"/>
Tube Groove	1G <input type="checkbox"/>	2G <input type="checkbox"/>	5G <input type="checkbox"/>	6G <input type="checkbox"/>
Sheet Fillet	1F <input type="checkbox"/>	2F <input type="checkbox"/>	3F <input type="checkbox"/>	4F <input type="checkbox"/>
Tube Fillet	1F <input type="checkbox"/>	2F <input type="checkbox"/>	4F <input type="checkbox"/>	5F <input type="checkbox"/>

Crossbolt Spacer Welded into Skidtube

TEST RESULTS

Visual Pass ☒ Fail ☐
Penetration Pass ☒ Fail ☐
Crossbolt Spacer Pass ☒ Fail ☐

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

Date of Test Coupon 01-06-20 Qualifier Pat Duval